

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/015849 A3

(51) International Patent Classification: **H04L 12/64**

(21) International Application Number:
PCT/EP2004/008096

(22) International Filing Date: 20 July 2004 (20.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
103 35 572.3 31 July 2003 (31.07.2003) DE

(71) Applicant (for all designated States except US): THOM-
SON LICENSING S.A. [FR/FR]; 46 Quai A. Le Gallo,
F-92100 Boulogne-Billancourt (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KNUTH, Kurth
[DE/DE]; Delpweg 2A, 30457 Hannover (DE). GLÄSER,
Frank [DE/DE]; Husarenstrasse 27, 30163 Hannover

(DI). BROCKE, Jens [DE/DE]; Marktstrasse 18, 30880
Laatzten (DE). KÖHLER, Ralf [DE/DE]; Froebeniusweg
7, 30455 Hannover (DE).

(74) Agent: SCHÄFERJOHANN, Volker; Deutsche
Thomson-Brandt GmbH, European Patent Operations,
Karl-Wiechert-Allee 74, 30625 Hannover (DE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HN, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: NETWORK SUBSCRIBER STATION FOR A NETWORK OF DISTRIBUTED STATIONS, AND METHOD FOR
OPERATING A NETWORK SUBSCRIBER STATION

T	ActualPtr	NextPtr	EditPtr	AuxPtr	Description
T0	A(0)	A(0)	B(0)	C(?)	Initial stage
T1	A(0)	A(0)	B(0')	C(?)	Edit
T2	A(0)	A(0)	B(1)	C(?)	(0), Editing ended
T3	A(0)	B(1)	C(?)	A(0)	(1) ... (4), test (5) -> "FALSE"
T4	A(0)	B(1)	C(1)	A(0)	(9)
T5	B(1)	B(1)	C(1)	A(0)	Reset operation
...					
T10	B(1)	B(1)	C(1')	A(0)	Edit
T11	B(1)	B(1)	C(2)	A(0)	(0), Editing ended
T12	B(1)	C(2)	A(0)	B(1)	(1) ... (4), test (5) -> "FALSE"
T13	B(1)	C(2)	A(2)	B(1)	(9)
T14	B(1)	C(2)	A(2')	B(1)	Edit
T15	B(1)	C(2)	A(3)	B(1)	(0), Editing ended
T16	B(1)	A(3)	B(1)	C(2)	(1) ... (4), test(5) -> "TRUE"
T17	B(1)	A(3)	C(2)	B(1)	(6) ... (8)
T18	B(1)	A(3)	C(3)	B(1)	(9)
T19	A(3)	A(3)	C(3)	B(1)	Reset operation
...					
T30	A(1)	B(2)	C(3)	A(1)	(0), Editing ended
T31	B(2)	B(2)	C(3)	A(1)	Reset operation
T32	B(2)	C(3)	A(1)	B(2)	(4), test (5) -> FALSE
T33	B(2)	C(3)	A(3)	B(2)	(9)
...					
T40	A(1)	B(2)	C(3)	A(1)	(0), Editing ended
T41	A(1)	C(3)	A(1)	B(2)	(4)
T42	C(3)	C(3)	A(1)	B(2)	Reset operation, test (5) -> "FALSE"
T43	C(3)	C(3)	B(3)	A(1)	(9)
...					
T50	A(1)	B(2)	C(3)	A(1)	(0), Editing ended
T51	A(1)	C(3)	A(1)	B(2)	(4), test (5) -> "TRUE"
T52	C(3)	C(3)	A(1)	B(2)	Reset operation
T53	C(3)	C(3)	B(2)	A(1)	(6) ... (8)
T54	C(3)	C(3)	B(3)	A(1)	(9)
...					

(57) Abstract: The invention relates to a network subscriber station (2) and to a method for operating a network subscriber station (2) for a network of distributed stations, particularly a network of IEEE 1394 network subscriber stations, which are connected by means of a data bus (1). The network subscriber station comprises at least three memory areas for operation-dependent interface configuration data and pointer means, which comprise electronic pointers to the at least three memory areas, and driver means for handling electronic data in the at least three memory areas and for electronic data transfer between the at least three memory areas.

WO 2005/015849 A3

- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

30 June 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

- with international search report